

NESQLUG NEWS
The Journal of Record of
New England Sinclair QL User Group

Vol II, No 4

"A Beacon to Guide the Wandering Sojourner Home from the Abyss of Confusion"

EDITOR'S NOTES

I want to draw your attention to two biggies in the **QL** world.

In this issue Gary Norton has an excellent article on the spirit of volunteerism in making groups such as ours work. I read it a dozen times over a month and am impressed with its revelations.

Robert Gilder from Long Island, NY a NESQLUG member serendipitously supplied a grand example of applying Gary's theme. Ed Kingsley had asked in the last newsletter for help in compiling a SuperBASIC version of Checkers (key punched by Gary) which was good but abysmally slow in computing. Bob responded. He was unsuccessful, so disk three of NESQLIB will have only the SuperBASIC, but Robert exemplifies one way that external members of NESQLUG can actively participate. QDOS to you, Bob!

Number two is that NESQLUG features prominently in QL World's March and April edition. So beg borrow or subscribe (to) copies.

The extraordinary part is that in a four month period NESQLUG (USA) was given print space three times in a British magazine (including Robin Stevenson's seminal article on the QL in North America in December, 1991.

Finally, welcome to our group, Mr. Moll of Delft, Holland.

The NESQLUG NEWS is the Journal of the New England Sinclair QL User Group. It is published bi-monthly.

Annual membership is \$10.00 (students \$5.00) in North America. The rest of the world - \$15.00 air mail.

We meet monthly on the first Saturday of odd-numbered months and the first Sunday of even numbered months. If that's a holiday weekend, we meet the following weekend.

NEXT MEETINGS

NESQLUG meets from 11:00am to 4:00pm, Saturday, March 7, at the home of Al & Dorothy Boehm, 33 Selfridge Road, Bedford, MA. Call (617) 275-1097 for directions. Come 9:00 to 10:00 for coffee and set up.

In April it meets from 1:00 pm to 4:00 pm, Sunday, Apr 5, at Mike Jonas, 1691 CCambridge St, Cambridge, to learn about BCPL.

Our exchange policy is simple: we-send-you-ours-if-you-send-us-yours (WSYOIYSUY) and you have something to say about the QL.

Please forward exchange issues to Mike Jonas, 1691 Cambridge St., Cambridge, MA 02138.

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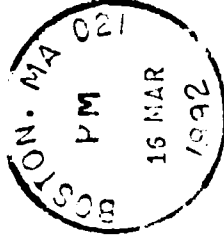
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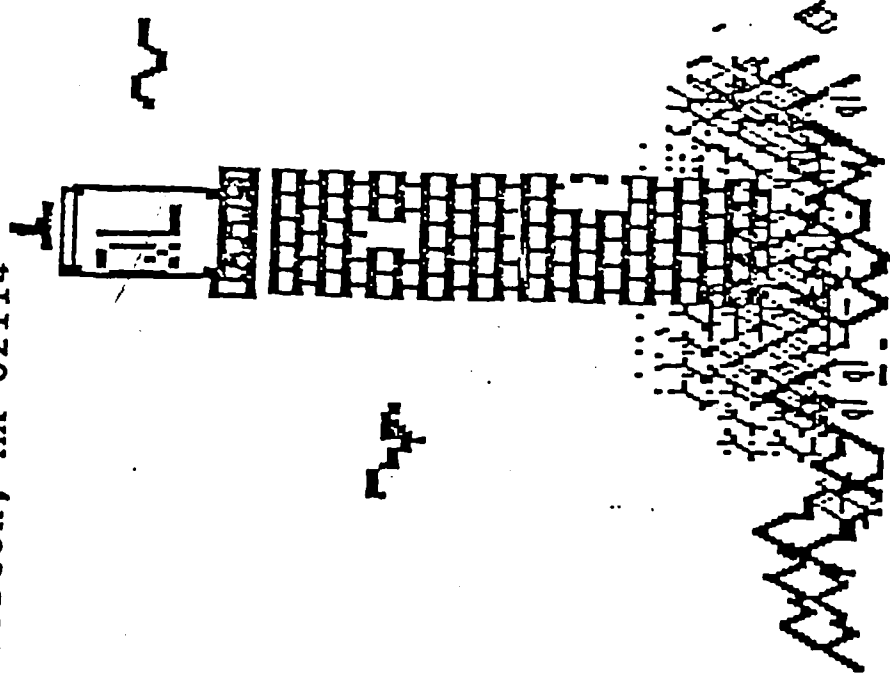
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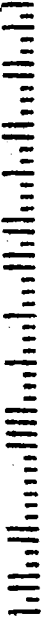
To:

NEWS CATUG NITE-TIMES
& Bob Swoger, Editor
613 Parkside Cir.
Streamwood, IL 60107



January/February 1992

NESQLUG Newsletter



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DIRECTIONS FROM THE DIRECTOR

by Al Boehm

This last seven months have been extremely busy for me. I worked 60 to 70 hours a week and wrote (as well as developed the theory for) two major computer programs.

The first program called VISTA dealt with simulation of clouds. It has advanced the state of the art in cloud simulation. It uses fractals and then some. It was written in SuperBASIC, compiled with the Turbo compiler and run on the QL. I've given Peter some of the figures and a copy of the paper for any who are interested in the details.

The second program (a couple of thousand lines long) had to do with cloud climatology and was written on an IBM clone in QuickBasic which is fairly new, has a lot of slick features, and is one of the best Basics available for the clones.

Which would I prefer to use to develop a new program? The answer is SuperBASIC. Why? The answer is time - my time. I can do 50% more in the same amount of time.

(Continued Right)

IFE LIBRARY

by Peter Hale

The IFE library is all duplicated with the exception of the Spanish Club and the C68 compilation system. By the time you read this, those two may be ready. Demand for the IFE Database disk has been brisk.

We sent IFE a copy of NESQLIBno2 and received the following reply (in part) from Franz Herrmann, Foreign Contact Secretary.

"How do you feel about me compiling an IFE update for NESQLUG. Several disks have been added and with the latest release of the C68 Compilation System, more and more programs are [being] ported.

"If your group wants an update let me know if I should include the C68 (eight disks), a German Bible (seven disks) and/or a topic oriented [collection] of the IFE library (seven disks). The latter [has] fractals on one disk, communication programs on another, graphic demonstrations, etc.

"By the way, thank you for the second NESQLUG disk. It looks highly interesting. I am especially glad that it is nearly all new material. The Skull demo is really funny and we will show this in Münster, at an International QL meeting in March. The NESQLUG NEWS will be shown around."

So get in your wish list by phone as soon as possible so I can write to Franz.

Also, see rules for IFE library disks on page 8.

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BEEP !!

On a different topic, we are starting a series of contests. This next meeting we will see who has written the most useful BEEP and who has written the most humorous BEEP.

MEMBERSHIP PARTICIPATION

by Gary Norton

During the January 4th meeting of NESQLUG, a discussion of participation in the group developed. All agreed that it takes a lot of work to get the meetings set up and the newsletter put together. However, there was a feeling, and I believe rightly so, that some members of the group are pulling more than their share and are receiving less than full cooperation in some endeavors from other members.

Each member of NESQLUG had a particular reason for joining the user group. One reason everyone joined was to get support and information to enhance the utility of their QL computers. This is accomplished through the group's meetings, the newsletter, and the network of members who are helping to keep the QL a viable alternative to Big Blue.

In order to keep the NEW ENGLAND SINCLAIR QL USERS GROUP a going concern, with a newsletter, it is important to get more members active in its operation. Because of geographic considerations, many members cannot always (or ever) make it to the meetings. Under the present system, that gives regular meeting attendees a monopoly on how the group is operated. They (including me) decide what is to be done with the club's finances, what topics/issues/ activities will take place at the meetings, and in most cases, what appears in the newsletter.

Even though I attend regularly, I was coerced into sending my first article for publication in the newsletter. However, I did send in that first one and have gone on to submit several others, willingly, on my own. At first I was reluctant to submit anything because I felt there are a number of the members with a much better knowledge of the QL, programming, computers in general, etc. However, it turned out that

even I could contribute something meaningful to the other readers. Everyone who receives the newsletter is encouraged to submit articles.

Articles don't have to be earth-shaking to be useful. If you have a particular knack or interest, turn it into an article. If you want to learn about a particular topic, send a request to the editor. If you received a new piece of software or hardware and want to do a critique, it would be welcomed by all the readers. Do you have ideas on improving the group or newsletter? Send it in! Do you have a gripe with something? Let us know! A note though. If you do send something, it is important to put it on disk or cartridge and send it along with a hardcopy. The editor will return your magnetic medium.

Articles for the newsletter aren't the only way to become involved. You've all read that the second NESQLUG library disk has been released. We need more programs for the third and subsequent library disks. They may be original programming or keyed in programs from QL World or other publications. One source I found were Public Domain Lotus 1-2-3 templates that I converted for use on the Psion Abacus spreadsheet.

You might be interested in one of the offices of the group. If so, let the Director know that you're interested, and at the next meeting it will be brought up for a vote. If someone lives outside the Greater Boston area and would like to attend a meeting, but cannot come to one of the regularly scheduled ones, let the Director know if you'd like to be a host. Chances are, unless you live on the West Coast, that there would be enough interest to get enough members to attend to make it worthwhile.

As mentioned earlier, everyone has a particular reason for paying out the \$10.00 membership fee. Everything involved with the group is voluntary. One may become a member and never be heard (Cont right)

KEYWHIZ by Ed Kingsley

Frustration may be the Mother of all ALTKEYs. Here are three more ALTKEYs that I use which you might also find of interest.

The first I wrote to quickly index PROCedures and FuNctions in the NESQLUG Library Programs. This ALTKEY LISTs all Program Lines divisible by 100. If your Program's PROC's and FuN's start at Line Numbers divisible by 100, as in the Library Programs, it does the same for you. If not, see Lib#2, PROC-num_bas, which does it for you.

The List appears in Monitor Window #1 (Right) and won't conflict with a LISTING in Window #2 (Left). LOAD the Program and initiate the ALTKEY (e.g. ALT/SHIFT + '?').

```
1) ALTKEY '?','CLS#1: LIST#1,100,
105,100: FOR x=2 to 9: PRINT#1,' ':
LIST#1,x*100: END FOR x: FOR x=10
to 50: LIST#1,x*100: END FOR x','"
```

LIST#1,100,105,100 - prints the Program Name (Line 105), with "===s" (Line 100), above and below it, as in Library Program headings and may be omitted. Use (CTRL + F5) to pause scrolling if there are too many Lines to fit the Window. N.B. the first set of ' ', has a space; the "" on the end do not.

I use ABACUS mostly to process columns of Text. QUILL is abysmal at dealing with 'columns', but ABACUS is designed for it, albeit primarily for formulae and numbers.
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MEMBERSHIP PARTICIPATION (Cont)

from or one may become a member and wish to run the whole show.

I have shown my own reluctance in many respects, but I have found it rewarding to contribute to the library disks. Submitting articles isn't too bad either. So, if you have the desire to be more actively involved, please do so. Remember, you don't have to attend all the meetings to become an active member.

Entering text is, unfortunately, roundabout, tedious and often downright annoying. Help was clearly needed.

My other two ALTKEYs are inspired by an EXECutable routine for ABACUS by Réal Cagnon. It enables the ALT Key to work with the Cursor (Arrow) Keys to <ENTER> the Command Line then automatically moves the cursor to the next cell (up, down, left or right). It works well, but unfortunately overrides ALT + Cursor Key Commands used in other Tasks and Programs, (e.g. the SuperBASIC Editor) and does nothing to simplify Text input.

My ALTKEY(s) <ENTER> the Command Line, moves "Down" to the next Row (or "Over" to the next Column) and automatically goes back into the Text Mode (Shift + ") for another Text entry.

```
2) ALTKEY "/","CHR$(216),CHR$(34)
(where 216 is code for down
arrow and 34 is code for SHIFT ')
This moves "Down" and is useful for
labelling Spreadsheet Rows.
```

```
3) ALTKEY ";","CHR$(200),CHR$(34)
(where 200 is code for right
arrow)
This moves "Right" and is good for
Spreadsheet Column Labels.
```

I use "/" and ";" because of their proximity to the ALT Key. Use any keys which makes sense to you. Note that the " following the first comma is a pair of single quotes - an empty string - no space.

Omit CHR\$(34) if you don't require Text Mode. Then it will <ENTER> your Formula or Number and move automatically to the adjacent cell. This prevents 'writing over' cells (if you sometimes forget to move the cursor to another cell) and saves a Keystroke, (or) too.

These ALTKEY's, and some others I use regularly, have made ABACUS much less tedious, saved time and possibly my sanity.

LOOKING AT ED DRIVES

by Sherm Waterman

I had bought a Gold Card in June 1991 and was experiencing the joys of an almost "normal" computer.

My thoughts then became "How nice it would be to have more disk storage capacity so disks would not have to be constantly changed." [Leading to a medical condition known as disk-wrist. ED.]

I'm inherently lazy, disorganized and usually spend too much time searching for the disk I want. A hard disk was a possibility, but the reports I'd read on the one for the QL from England had left me cold.

Well! What do you know? The next QL WORLD advertised MIRACLE SYSTEMS dual 3.2 meg disk drives!

When I wrote MIRACLE, they replied that the 110/120v power supply for North America was not yet available but was expected in December, 1991. I ordered the drives and the Quad drive interface. They arrived almost on schedule in January, 1992, along with 10 ED 3.5" disks (as in: "ORDER in the next ten minutes and we will include absolutely free as our gift to you ...").

The Quad drive interface (available for both the Gold Card and the Trump Card for £15) slips easily into the Gold Card ribbon cable slot. It is more than just an option to boost the drives accessed from three to four. It has two slots, one on the top for flp1/flp2, which are my 3.5" ED drives, and one on the left side for flp3/flp4, my original 5.25" drives. Thus no need to build a new four drive system, although a four drive system could plug into the top slot.

When I formatted my first ED disk I was amazed at the format report G400/G400. It was expected, but seeing it was another thing.

The expansion takes some getting used to. My only other computer

experience was with a T/S 2068, so I will have to learn to organize my additional capacity properly. But like a kid with a new toy (aren't we all), I'll learn about sub-directories, etc. in time.

Formatting an ED disk takes no longer than lower capacity 5.25" 1440 sector disks but results in more than four times the capacity. LOADING and COPYING seem faster, though I haven't run time trials.

My flp1_ disk holds TASKMASTER, the four PSION programs, a game (SOLITAIRE), 10 utilities, PROFESSIONAL PUBLISHER and a sizeable SuperBASIC database program. Yet there are still 2668 free sectors.

Life is not all a bed of roses, however. At present, I can only format disks when the ribbon cable is connected to the top slot (my flp1_/flp2_ ED drives).

Also, copying between drives connected to the separate slots is unreliable on my setup. The directory shows a transfer, but the QL hangs when trying to run or load the file. Although MIRACLE replaced the interface promptly, the problem won't go away and it may be something in the GOLD CARD itself. I am in continuing correspondence with MIRACLE.

Finally, ED disk supply is a problem. Suppliers are few and far between (Radio Shack expects to have them in March) and they are expensive. This is not critical as the drive will also happily handle ordinary 3.5" DD and HD disks.

Here's something to think about. The February QL WORLD reported that 25 meg floppy drives are available in the Far East. Make them for the QL and my new drives are up for sale!

[Editor's addendum: The latest MIRACLE advertisement reports that supplies of the new drives (from Mitsubishi) are short since MIRACLE has not been able to negotiate a favorable price. (Continued right.)

TOWARD A NEW (QL) WORLD ORDER

by Ed Kingsley

I write many documents with text in columns and QUILL isn't much help in automatically rearranging text. I have found that ABACUS is a handy program with some word processing functions unavailable in QUILL.

One can edit columns of text or numbers and alphabetize and order them in Ascending sequence. (Such .aba files can be EXPORTed to QUILL or printed-out from ABACUS).

If like me, however, you have ever attempted to order a list of text or numbers in Descending alphabetical or numerical order, you have probably found yourself out of luck. ORDER only works one way, unless you modify a copy of Abacus with Config_bas.

Recently, I needed to order a column of (100) names in Descending alphabetical order (Z to A) and did it thusly:

1) First, with the names in Column C, I ORDERed Column C in Ascending order. (eg, F3, O, C, C1:C100) (A to Z)

2) Then, in cell A1, I put the formula " $\text{col}=\text{row}()-100$ ". (The number 100 is arbitrary,

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ED DRIVES .. (Cont)

Also, note that TEAC makes a ED drive compatible with the QL. IQLR reported that they are available from J. D. Hannam Co. for under \$100.00 (1-800) 228-0308. The compatible model is FD235J 3653. Other models are NOT compatible.

This drive will also work with a TRUMP card - and maybe other disk interfaces - but won't format more than 1440 sectors, the basic 3.5" DD disk. It is worth considering if you plan to upgrade your system to 3.5" drives but are holding off on a Gold Card for the time being.]

use whatever number represents the number of items YOU wish to order.)

3) Next, in cell B1, I put the formula " $A1*(-1)$ ".

4) Then, I ECHOed that formula down Column B to the extent of the text. (eg, F3, E, B1, B2:B100.)

Initially, Column A contained a list of negative (but still Ascending) numbers beginning with (-99) in Cell A1, and continuing down (up numerically) to (0) in Cell A100.

In Column B, the " $A1*(-1)$ " formula in each Cell copied and printed the number(s) from column A, but changed the sign of each number so that it became a Descending column of numbers (eg, 99 to 0). Then, by ORDERing on Column B, Column C was inverted and appeared in Descending order.

I used the Commands: Grid, Delete, Columns A to B, to eliminate Columns A & B, and my text was then in Column A, just the way I wanted it. I imagine that the order of numerical data may be similarly inverted. Just remember to do the ORDERing on Column B.

NOTE: When a Column is ORDERed, every Column in the same numerical range (eg, 1 to 100) gets rearranged with it. If you have other data in adjacent columns (to the left or right) which should not be disturbed, first move the data to be ORDERed to an unused area of the spreadsheet (down NOT right or left) with the COPY command. ORDER it there and then COPY it back where you want it.

OK, it's not elegant, but it's reasonably simple and it does work.

[Ed note. Would abs(A1) also work in column B? In column A? Think about it.]

by Hugh Howie

Just got the second Library disc put out by our intrepid Librarian and there is enough to keep the Music Lover busy for many a day.

I am not going to slight the rest of this disc, for there are many really great things on it. Some wonderful Pics and even one that talks like a certain head of state, it just keeps on saying Watch My Lips over and over and over again. I went to the meeting of another club at which I was going to give a demonstration and halfway through the business sector of the meeting I turned this on. The speaker, who could not see the screen, could not understand the cause of the hilarity until he was told he was on TV. He tweaked his moustache, straightened his shoulders, put on a smile, then turned round to look at the screen. Hrmph. (I had to leave early)

But back to the music. Anyone who tries to tell you there is no music in the QL has not heard this lot. Simply wonderful. Not only that, but you are encouraged to try your hand at creating your favourite tunes with the program. Thought I might try for the Prisoners Chorus from Nabucco! How about it Peter? 'Think it is possible?

The nice thing about it is that, within limitations of course, you do not have to know how the sound in the QL works; all you need is the basics of music. OK! OK! It doesn't give a complete keyboard or a selection of all the keys and sharps and flats, but enough to make you want to try something.

From now on we can call him Pete, the Music man.

There is another little utility to get rid of all those ugly screens left behind by some programs. Lovely to get rid of them without a reset.

All we need now is a little utility like this to get rid of all those EXECed screens we can be left with.

by Peter Hale

Elsewhere in this issue Ed Kingsley describes some handy ALTKEYs, but don't forget that PROCedures are useful for many repetitive tasks.

I developed two to make IFE backup copies on 5.25" and 3.5" disks.

With a Gold Card there is enough memory to hold the contents of an entire disk on a ramdisk, then copy from ramdisk to each of the backup media in turn. With less than a full disk other interfaces/memories can be used as well.

The benefit of copying to ramdisk is that the disk head does not have to be lifted during the copying process and the potential for transcription error is reduced.

But I was always (mis)typing a series of WCOPY commands. So I wrote the following:

```
10 DEFine PROCedure CPr
20   WDEL ram1_
30   WCOPY flp3_ram1_
40 END DEFine CPr
```

I type CPr at the command line and get the prompt to delete the prior contents of ramdisk 1, if there are any; otherwise, it skips straight to the WCOPY prompt. All I need to do is press A for All each time.

```
100 DEFine PROCedure CP2
110   WCOPY ram1_flp2_
120   WCOPY ram1_flp3_
130 END DEFine CP2
```

CP2 is similar for copying from ramdisk to each backup disk.

Hope this prompts you for ideas to simplify other repetitive tasks.

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Ed note to Hugh: I didn't invent the extensions that made Sounder possible. But thanks to Miss Seal in the 4th grade I can stumble through printed notes (slowly).

OTHER THOUGHTS

by Ed Kingsley

I am trying at the moment to produce BEEP tones which actually correspond precisely to a musical scale. The pitches available using only the BEEP Pitch and Duration Parameters are seldom even close to true musical pitches. If a reader has already worked out "true" tones with the aid of the other Parameters, I'd really appreciate hearing from him/her. If I am successful, I will publish the Parameters in an upcoming newsletter.

If anyone out there has any idea(s) about accessing the excellent music chip in the 2068 by connecting it (somehow) to a QL - PLEASE get in touch with me.

Q-DOS

by Ed Kingsley

Let the games begin! Judy and Will Horton did and treated us to a Mexican repast last month, teasing our minds and our tastebuds. The chile was delicious and no lasting symptoms were reported by any of the survivors. Just kidding, it was caramba, Judy, muy bueno, gracias and, until next time, Buenos Aires.

It was also good to see Fred Romer again. Fred has been in hospital lately, allegedly using experimental pharmaceuticals in his quest for gold in the summer Moustache Olympics. Lookin' good, Fred.

NESQLUG LIBRARY UPDATE

by Ed Kingsley

Nada. Nichts. Nothing. Zip ...
I have received no Programs for Disk#2 in two months.

Progress zero. Use it or lose it, people.

If you're entering the "BEEP" contest next meeting, be sure and check out the BEEP_Demo_bas program on LIB#2.

[Ed Note: half the stuff for disk three is in hand, so don't despair!]

text87 Plus 4 SHIPPED

Software87 has begun shipping orders for text87 Plus 4, the latest generation of this advanced word-processor for the QL.

Shipping was delayed after a few bugs were discovered during Beta testing.

Plus 4 is a complete rewrite in compiled C and assembly and now features on-line help (in lieu of a manual) and many additional fonts and printer access functions.

Document files follow a new format designated _T31, but older _T87 are readily imported.

IFE DISK RULES

by Peter Hale

There is some confusion about Public Domain software copying charges, so let me repeat.

NESQLIB disks are \$1.00 on your preformatted medium, \$1.50 on ours.

The IFE database disk is FREE! (paid from your membership fees) It lists all software with a brief description of each title and language. Just let us know your choice of medium, and it goes out free with the next newsletter. If you can't wait, send \$0.52 for postage, but you must let us know the medium. 1440 sector disks minimum.

When you decide which IFE disks interest you, then you must send a preformatted disk and return postage at the rate of \$0.52 for the first disk and \$0.23 for each disk thereafter. Because of the volume and time, we are NOT supplying or formatting disks for IFE disk requests.

Send 5.25" 1440 sector disks to Ed Kingsley, 3.5" disks to Peter Hale.

VIEWING IN THREE DIMENSIONS

PART I

by Al Boehm

Displaying three dimensional figures using the computer has always fascinated me. It turns out there are many ways to "see" something in three dimensions using perspective, motion, shadows, etc. In a series of articles, I hope to share my explorations of these methods with you.

This PART I demonstrates the use of filter eyeglasses to simulate three dimensional viewing.

I don't know when the first 3D filter glasses were used, but I remember a rash of 3D comic books and movies in the late 1950's. The comic books used a red and green filter to allow each eye to see something different thus giving the impression of depth. The QL game Wanderer uses the same technique to give the impression of flying through space. The illusion is good enough to give you a mild case of space sickness if your seat belt isn't on tight!

Modern movies use a more sophisticated filter system involving polarized light and polarized filters on your glasses which allow colored images. With only red and green filters, only a single color scene results. But since the QL (with a color monitor) puts out red and green images, we can use it to make objects appear three dimensional.

You need a color monitor and a pair of red and green filter glasses. These glasses sometimes come in cereal boxes. In any case, they are not hard to make using a small square of green and a small square of red cellophane.

Figure 1 shows how binocular vision can determine distance by sensing the different directions the eyes must follow to focus on an object. Figure 2 shows how the filters over each eye fool them into thinking the object is closer or further away than the surface of the monitor.

Listing 1 demonstrates this three dimensional effect by drawing a green circle and a red circle. Pushing the up or down arrows makes the circle appear to come out of or recede into the monitor. The letter s stops the program. The program is set up for glasses with green on the left. If yours are opposite, reverse the INK colors in lines 160 and 170.

At first you may have trouble focusing on the combined green/red circle. A darkened room may help. If you keep seeing two circles, keep staring at it. Suddenly your eyes will relax and you'll see one circle floating in space. Once you see it, the effect is worth the effort.

You are supposed to see only the red circle through the red filter and the green circle through the green filter. But since the green and red filters usually do not exactly match the red and green colors, some of the red circle may "bleed" through the green filter and vice versa. Thus, you may see three circles: the combined red/green and a separate ghostly red and green circle. Ignore these paler circles and concentrate on the combined circle. Some monitors allow color adjustment to better match the exact shade of the filters.

In part II (of many?) I will show another way three dimensions can be displayed on the QL.

LISTING I

```
100 REMark Circle3D
110 REMark 20 Feb 1992 by A.Boehm
120 PAPER 0
130 SCALE 100,-70,-50
135 d=8
140 REPEAT distance
150 CLS
160 INK 4:CIRCLE -5+d/2,0,d
170 INK 2:CIRCLE +5-d/2,0,d
180 change=CODE(INKEY$(-1))
190 SElect ON change
200 =208:d=d*.95:REM up arrow
210 =216:d=d*1.05:REM down arrow
220 =83,115:STOP:REM BIG S, small s
240 END SElect
250 END REPEAT distance
```

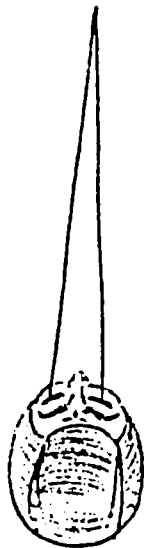


Figure 1

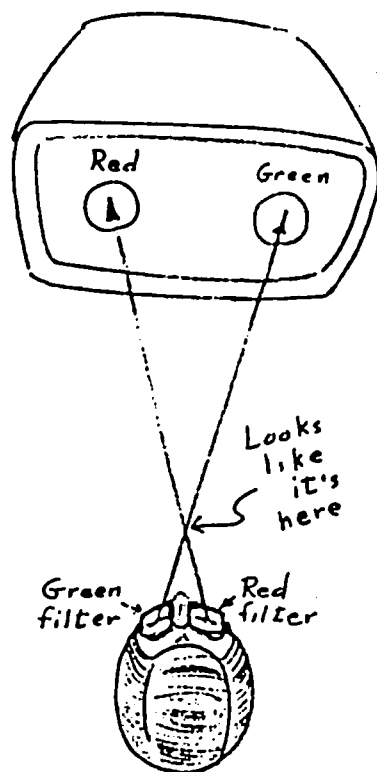


Figure 2

LAST MINUTE GOLD NEWS

We have learned that Miracle has just released rom 2.28 for the Gold Card.

Two glitches have been fixed.

1) It is now possible to format microcartridges. Formally, one could only read and write to a preformatted microcartridge.

2) Networking with a JSU rom is now OK. There had been a problem discovered by NESQLUG member Hugh Howie, our intrepid Networker of the North (no relation to Nanook of the North).

Hugh and I had spent considerable time to the financial benefit of AT&T and Canada Bell discussing problems with earlier GC roms. Hugh sent off the research data to MIRACLE and in fairly short order rom 2.28 was released and sent to him!

One more arrow in the quiver of NESQLUG in making the world safe for the QL!

Again, our advice is that if you don't network or use microcartridges, wait. Don't waste MIRACLE's resources until you come up against a bug that is important to you. MIRACLE's customer service is excellent, but try not to abuse their good will just to get a definitive collection of Gold Card roms.